

Appln. No.: 10/034,260
Amendment dated August 17, 2005
Reply to Office Action of May 12, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A method of allowing a target computer to be remotely controlled through a browser, the method comprising:

accepting a connection from the browser, wherein the browser is executed by a wireless-client device;

downloading to the browser a web page containing remote-control user-interface elements;

receiving a message generated in response to a user interacting with at least one of the remote-control user-interface elements, wherein the message indicates at least one keyboard event to be simulated on the target computer; and

simulating at least one keyboard event based on the received message such that the target computer is remotely controlled through the browser without the target computer transmitting to the wireless-client device data that specifies the content of the target computer's GUI-display screen.

Claim 2 (Original): The method of claim 1, wherein the accepted connection is an HTTP connection from a wireless-access gateway.

Claim 3 (Original): The method of claim 1, wherein the browser is a wireless-access browser.

Claim 4 (Original): The method of claim 3, wherein the wireless-access browser and the target computer communicate through a wireless-access gateway.

Claim 5 (Original): The method of claim 1, wherein the remote-control user-interface elements comprise virtual keyboard keys.

Appln. No.: 10/034,260
Amendment dated August 17, 2005
Reply to Office Action of May 12, 2005

Claim 6 (Original): The method of claim 1, wherein the remote-control user-interface elements comprise hypertext markup language buttons.

Claim 7 (Original): The method of claim 1, wherein the remote-control user-interface elements comprise wireless markup language select elements.

Claim 8 (Original): The method of claim 1, wherein the accepting, the downloading, the receiving, and the simulating are each performed by the target computer.

Claim 9 (Original): The method of claim 1, wherein the received message is contained in a query portion of an HTTP request.

Claim 10 (Original): The method of claim 1, wherein simulating the at least one keyboard event comprises sending an operating system key event to an active application on the target computer.

Claim 11 (Original): The method of claim 1, wherein simulating the at least one keyboard event comprises simulating a press-and-hold operation for at least a first key while simulating a press and then a release of at least a second key.

Claim 12 (Original): The method of claim 1, wherein the received message is part of an HTTP POST.

Claim 13 (Currently Amended): A method of using a wireless-access browser to remotely control a target computer, the method comprising:

connecting to a wireless-access gateway to establish a wireless-access-browser connection to a keyboard event server running on the target computer;

using the wireless-access browser to download from the keyboard event server a web page containing remote-control user-interface elements, wherein the wireless-access browser is executed by a wireless-client device; and

Appln. No.: 10/034,260
Amendment dated August 17, 2005
Reply to Office Action of May 12, 2005

sending a message to the keyboard event server, wherein the message is generated in response to a user interacting with at least one of the remote-control user-interface elements and wherein the message indicates at least one keyboard event to be simulated by the keyboard event server on the target computer such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the wireless-client device data that specifies the content of the target computer's GUI-display screen.

Claim 14 (Original): The method of claim 13, wherein the remote-control user-interface elements comprise wireless markup language select elements.

Claim 15 (Original): The method of claim 13, wherein the sent message is contained in a query portion of an HTTP request.

Claim 16 (Original): The method of claim 15, wherein the sent message is part of an HTTP POST.

Claim 17 (Currently Amended): A method of allowing a wireless-access browser to remotely control a target computer, the method comprising:

establishing, through a wireless-access gateway, a wireless-access-browser connection to a keyboard event server running on the target computer;

downloading through the wireless-access gateway from the keyboard event server to the wireless-access browser a web page containing remote-control user-interface elements, wherein the wireless-access browser is executed by a wireless-client device;

converting a wireless protocol-encoded (WP-encoded) message received from the wireless-access browser at the wireless-access gateway into an HTTP message, wherein the WP-encoded message is generated in response to a user interacting with at least one of the remote-control user-interface elements and wherein the WP-encoded message indicates at least one keyboard event to be simulated by the keyboard event server on the target computer; and

transmitting the HTTP message from the wireless-access gateway to the keyboard event server such that the target computer is remotely controlled through the wireless-access browser

Appl. No.: 10/034,260
Amendment dated August 17, 2005
Reply to Office Action of May 12, 2005

without the target computer transmitting to the wireless-client device data that specifies the content of the target computer's GUI-display screen.

Claim 18 (Original): The method of claim 17, further comprising:
receiving an HTTP response from the keyboard event server at the wireless-access gateway;
converting the HTTP response to a WP-encoded response; and
transmitting the WP-encoded response from the wireless-access gateway to the wireless-access browser.

Claim 19 (Original): A computer-readable medium having computer-executable instructions for causing a wireless-access gateway to perform the steps recited in claim 18.

Claim 20 (Original): A computer-readable medium having computer-executable instructions for causing a target computer to perform the steps recited in claim 4.

Claim 21 (Original): A computer-readable medium having computer-executable instructions for causing a wireless-access browser to perform the steps recited in claim 16.

Claim 22 (Currently Amended): A mobile terminal that allows an end user to remotely control a target computer, the mobile terminal comprising:

a wireless-access browser that downloads remote-control user-interface elements, and sends a message to a keyboard event server executing on the target computer, wherein

the message is generated in response to the end user interacting with at least one of the remote-control user-interface elements, and

the message indicates at least one keyboard event to be simulated by the keyboard event server on the target computer such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the mobile terminal data that specifies the content of the target computer's GUI-display screen.

Appl. No.: 10/034,260
Amendment dated August 17, 2005
Reply to Office Action of May 12, 2005

Claim 23 (Original): The mobile terminal of claim 22, wherein the wireless-access browser and the target computer communicate through a wireless-access gateway.

Claim 24 (Original): The mobile terminal of claim 22, wherein the remote-control user-interface elements comprise wireless markup language select elements.

Claim 25 (Original): The mobile terminal of claim 22, wherein the sent message is wireless-protocol encoded.

Claim 26 (Original): The mobile terminal of claim 22, wherein the at least one keyboard event to be simulated comprises simulating a press-and-hold operation for at least a first key while simulating a press and then a release of at least a second key.

Claim 27 (Currently Amended): A remote-control system comprising:

a mobile terminal running a wireless-access browser that receives remote-control user-interface elements;

a wireless-access gateway; and

a target computer coupled to the wireless-access gateway, wherein

the target computer is running a keyboard event server that receives a message through the wireless-access gateway from the wireless-access browser,

the message is generated in response to a mobile-terminal user interacting with at least one of the remote-control user-interface elements, and

the keyboard event server simulates at least one keyboard event on the target computer based on the received message such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the mobile terminal data that specifies the content of the target computer's GUI-display screen.

Appln. No.: 10/034,260
Amendment dated August 17, 2005
Reply to Office Action of May 12, 2005

Claim 28 (Original): The remote-control system of claim 27, wherein the received message comprises at least one mnemonic corresponding to the at least one simulated keyboard event.

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